

What is claimed is:

1. A method of forming a head suspension for a rigid disk
5 drive having a load beam with a mounting region, a rigid region, and a spring
region located between the mounting region and rigid region, comprising the steps
of:

generating a plurality of tabs adjacent to an aperture in the
mounting region; and

10 bending at least one of the tabs at an angle with respect to the
mounting region to generate an integral boss tower.

2. The method of claim 1 wherein the tabs and the mounting
region comprise different portions of the same piece of material.

15 3. The method of claim 1 comprising bending at least one of
the tabs.

4. The method of claim 1 comprising forming the tabs with a
20 first portion directed away from the mounting region.

5. The method of claim 4 comprising forming the tabs with a
second portion directed towards the mounting region.

25 6. A method of forming a head suspension for a rigid disk
drive having a load beam with a mounting region, a rigid region, and a spring
region located between the mounting region and rigid region, comprising the steps
of:

forming a region around a perimeter of an aperture in the mounting region into a shape having at least one projecting portion positioned at an angle with respect to the mounting region; and

attaching a boss tower to the projecting portion.

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7. The method of claim 6 comprising attaching the boss tower to the projecting portion using an adhesive.

8. The method of claim 6 comprising attaching the boss tower to the projecting portion using welding.

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9. The method of claim 6 comprising forming a fastening mechanism adapted to attached the boss tower to the projecting portion.

10. The method of claim 6 comprising injection molding the boss tower in place over the projecting portion.

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11. The method of claim 6 wherein the projecting portion and the mounting region comprise different portions of the same piece of material.

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12. The method of claim 6 wherein the projecting portion is continuous.

13. The method of claim 6 wherein the projecting portion is discontinuous.

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14. The method of claim 6 comprising using the projecting portion to position and align the boss tower relative to the aperture.

15. A method of forming a head suspension for a rigid disk drive having a load beam with a mounting region, a rigid region, and a spring region located between the mounting region and rigid region, comprising the steps of:

generating a plurality of holes in the mounting region around an aperture in the mounting region; and
injection molding the boss tower to the mounting region to form a bond between the boss tower and the mounting region wherein at least a portion of a material from which the boss tower is molded flows through the holes.

16. A method of forming a head suspension for a rigid disk drive having a load beam with a mounting region, a rigid region, and a spring region located between the mounting region and rigid region, comprising the steps of:

generating a plurality of holes in the mounting region around an aperture in the mounting region; and
mechanically interlocking the boss tower with the holes.

17. The method of claim 15 wherein the step of mechanically interlocking comprises snap-fitting the boss tower with the holes.

18. A method of forming a head suspension for a rigid disk drive having a load beam with a mounting region, a rigid region, and a spring region located between the mounting region and rigid region, comprising the steps of:

generating a plurality of tabs located around an aperture in the mounting region;

positioning the tabs at an angle with respect to the mounting region;
and

injection molding the boss tower to the mounting region using a
material which flows around the tabs to strengthen a bond formed between the
5 boss tower and the mounting region.

19. A method of forming a multi-piece head suspension for a
rigid disk drive, comprising the steps of:

providing a first layer having a mounting region with an integral
10 boss tower attached to a rigid region by at least one positioning tab;

attaching a second layer having a spring region to an interface
between the mounting region and the rigid region;

attaching a flexure to the rigid region; and

removing the positioning tab.

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20. A method of claim 19 wherein the rigid region comprises a
stiffener.

21. A method of claim 19 wherein the flexure comprises a
20 portion of the second layer.

22. A method of claim 19 wherein the flexure comprises a
portion of a third layer.